

FIG. 1

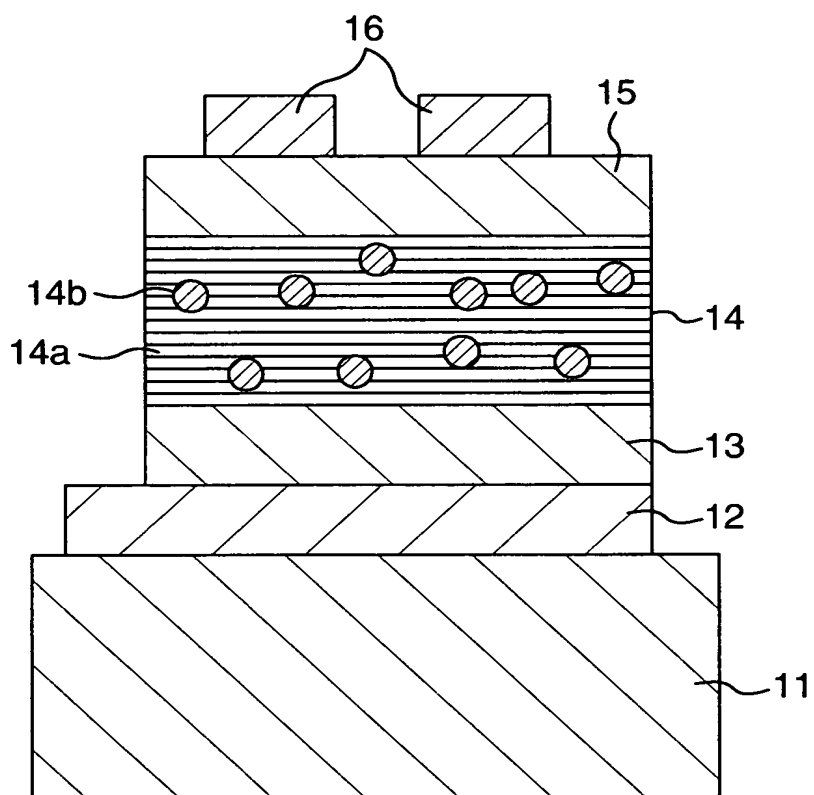
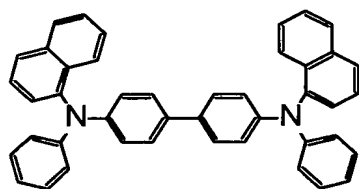
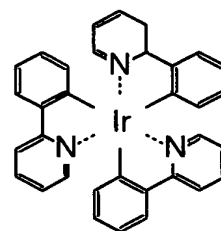


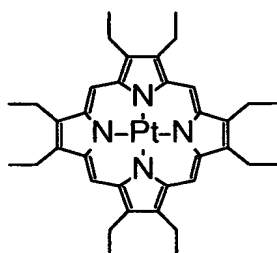
FIG. 2



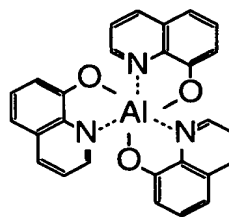
4,4'-bis(N-(1-naphthyl)-N-phenyl-amino)biphenyl  
( $\alpha$ -NPB)



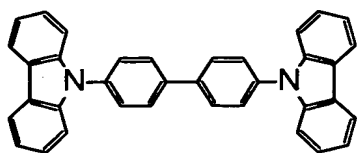
tris(2-phenylpyridine)iridium  
(Ir(ppy)<sub>3</sub>)



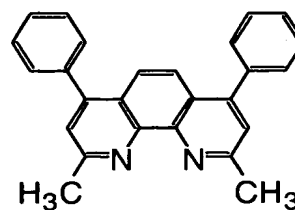
2,3,7,8,12,13,17,18-octaethyl  
-21H,23H-porphine platinum  
(PtOEP)



tris-(8-hydroxy-quinoline)aluminum  
(ALQ)



4,4'-N,N'-dicarbazole-biphenyl  
(CBP)



2,9-dimethyl-4,7-diphenyl-phenanthroline  
(BCP)

FIG. 3

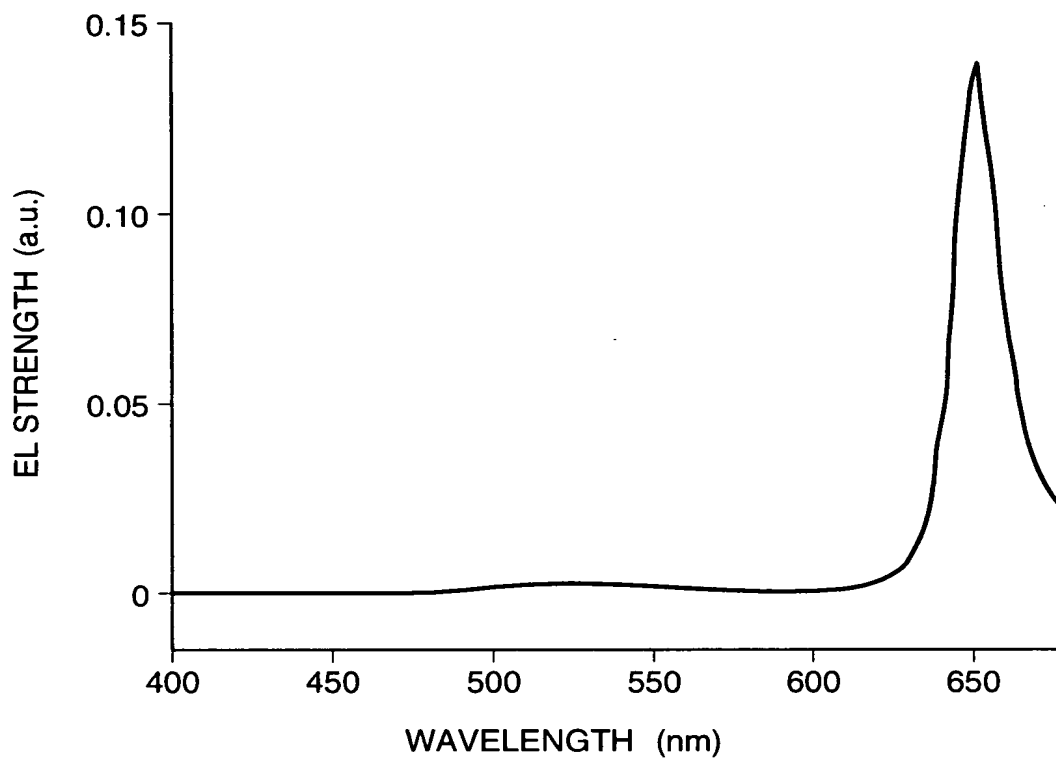
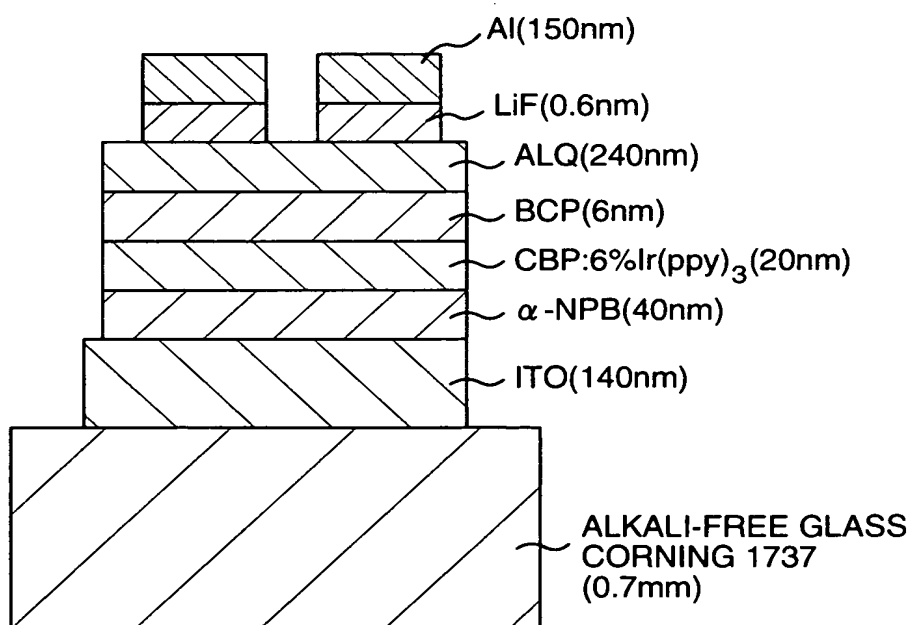


FIG. 4



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FIG. 5(a)

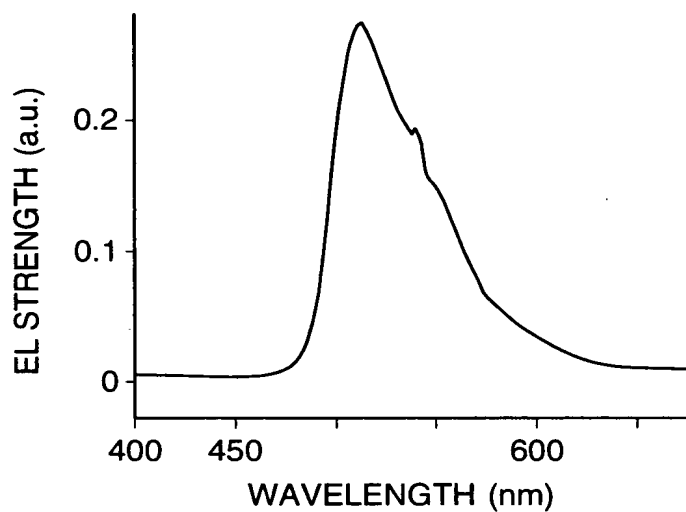


FIG. 5(b)

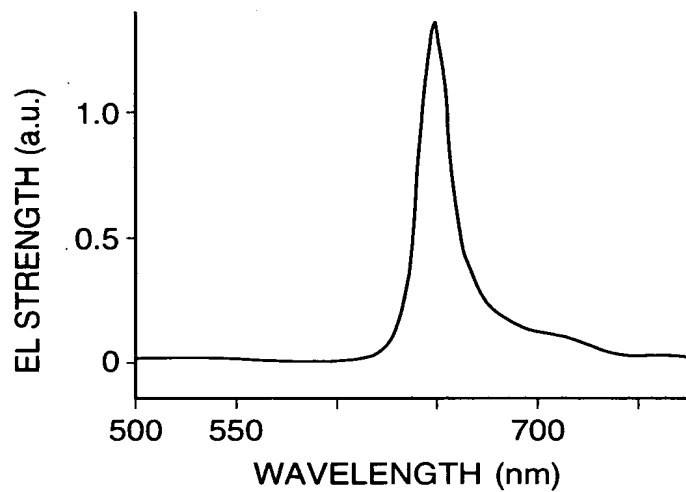


FIG. 5(c)

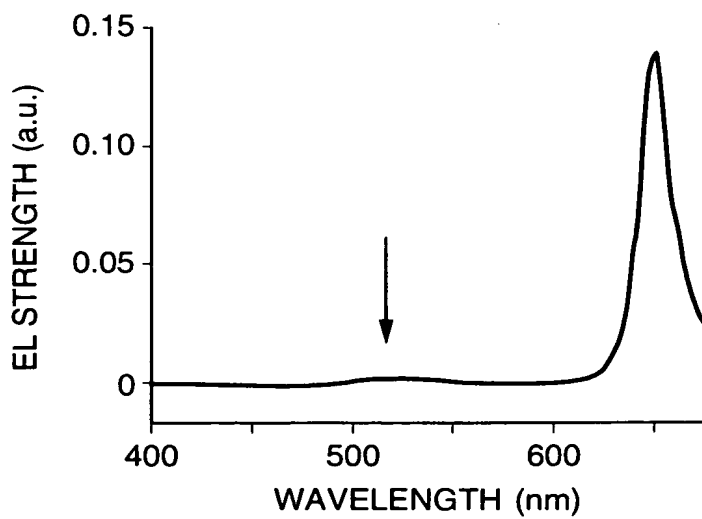


FIG. 6

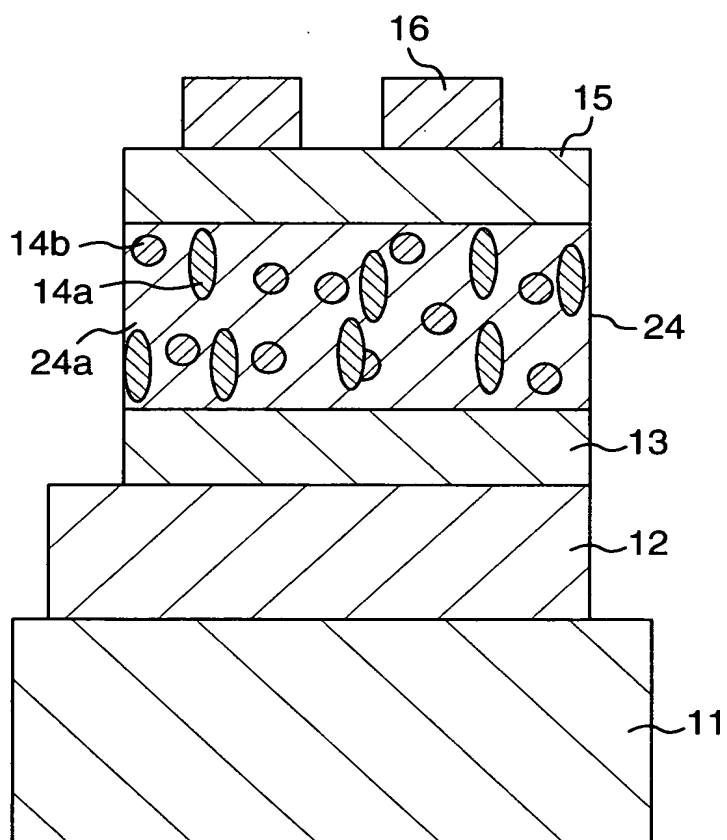


FIG. 7

